

機動戦士
ガンダム

F-90

MOBILE SUIT GUNDAM
F90 CLUSTER

クラスター

漫画: 今ノ夜きよし シナリオ: 小太刀右京 (チーム・バレルロール)

原作: 矢立肇・富野由悠季

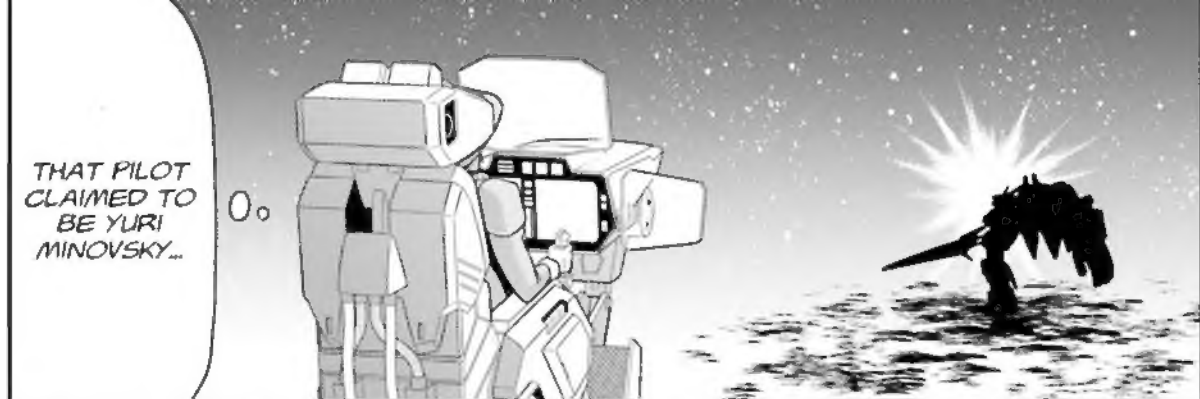
メカニックデザイン: 森木靖泰・柳瀬敬之・フジイナオキ

オリジナルF90デザイン: 大河原邦男

NO ONE
MENTIONED
ANYTHING
ABOUT A
MACHINE
LIKE THAT!

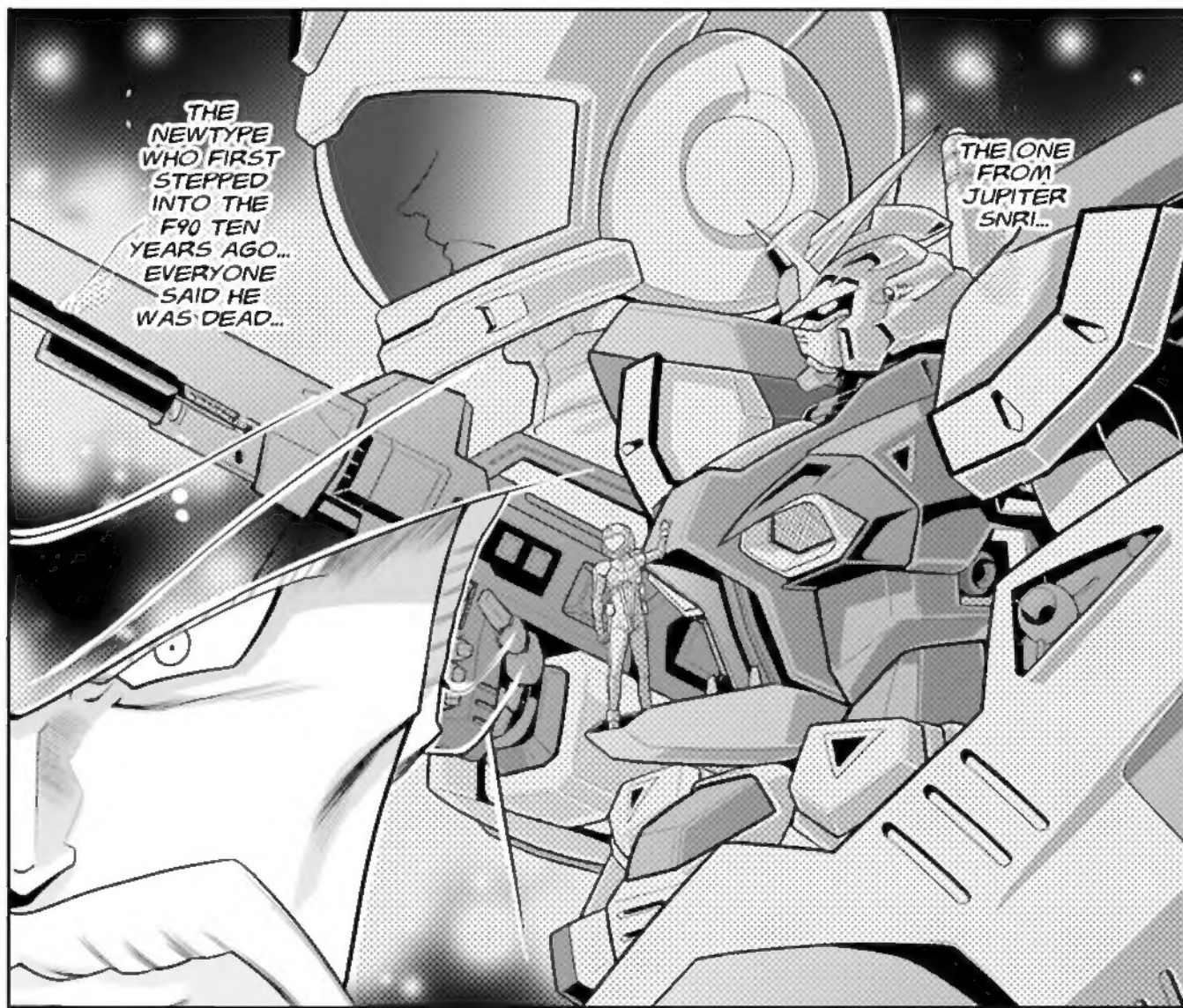
オオオオオ...

WHAT THE
HELL IS
THAT?!



THAT PILOT
CLAIMED TO
BE YURI
MINOVSKY...

Oo



THE
NEWTYP
WHO FIR
STEPPE
INTO TH
F90 TEN
YEARS
EVERY
SAID HE
WAS DE
...

THE ONE
FROM
JUPITER
SNRI...



IT HAS
TO BE A
NEWTYP...

IN THAT
CASE...

BUT THAT
OVER-
WHELMING
PRESSURE
FROM THE
FIGHTER...



ALL
UNITS.

INITIATE
DEATH
HAUNT
SCREW.



!

WITHOUT
LORD
DYAUS'S
AUTHORI-
ZATION?



!

WE'RE
RELEAS-
ING THE
LIMIT-
ERS?!



TIME TO
SHOW
THEM...

...WHAT
MAKES
OUR F80
EXTRA
SPECIAL!



HEHEH...
I READ
YOU LOUD
AND
CLEAR.



DON'T
MAKE
ME
REPEAT
MYSELF.



THEY'LL
SEE
WHAT
WE'RE
MADE
OF!



THAT'S
ALL YOU
NEED TO
THINK
ABOUT
RIGHT
NOW.

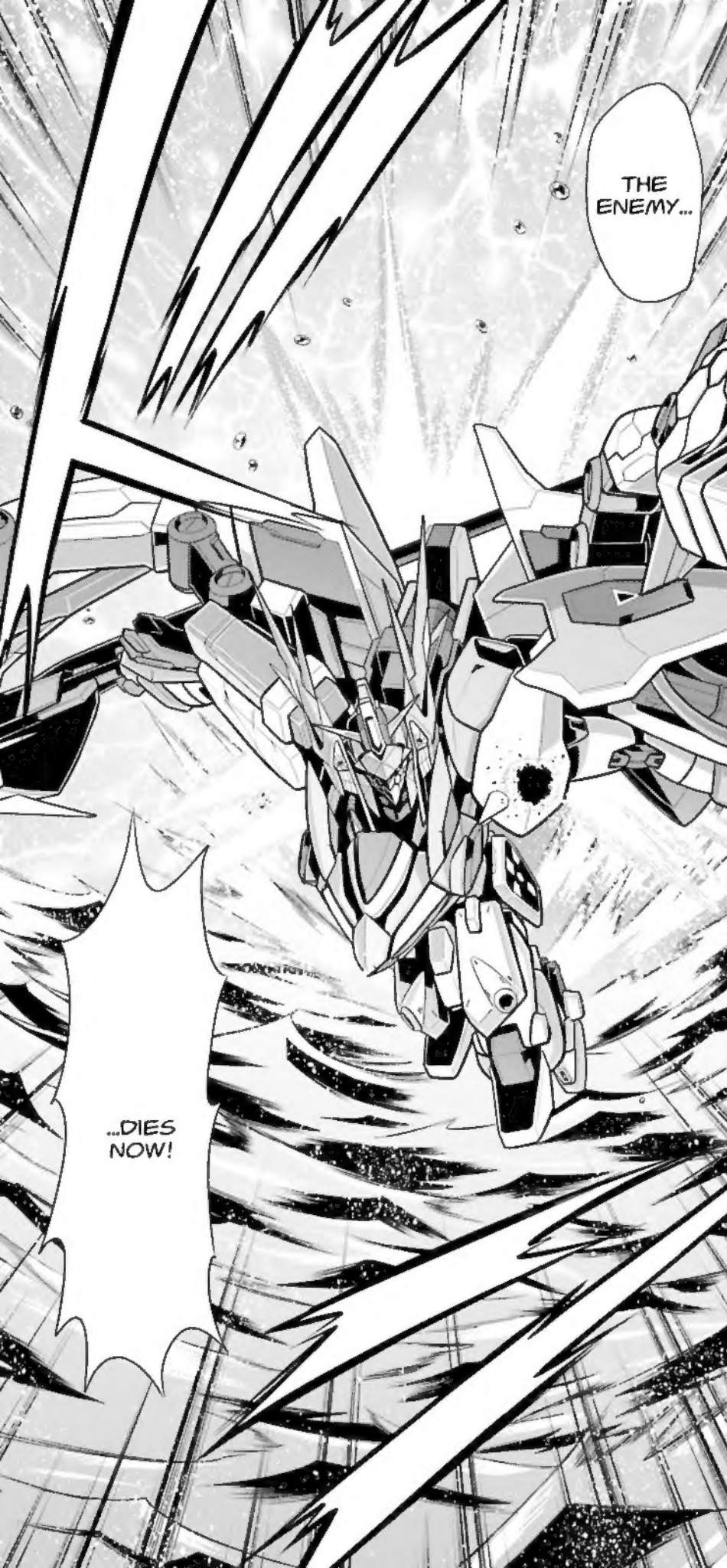
I'LL PRO-
TECT
BOTH YOU
AND THE
GUNDAM.



STAY
CALM.

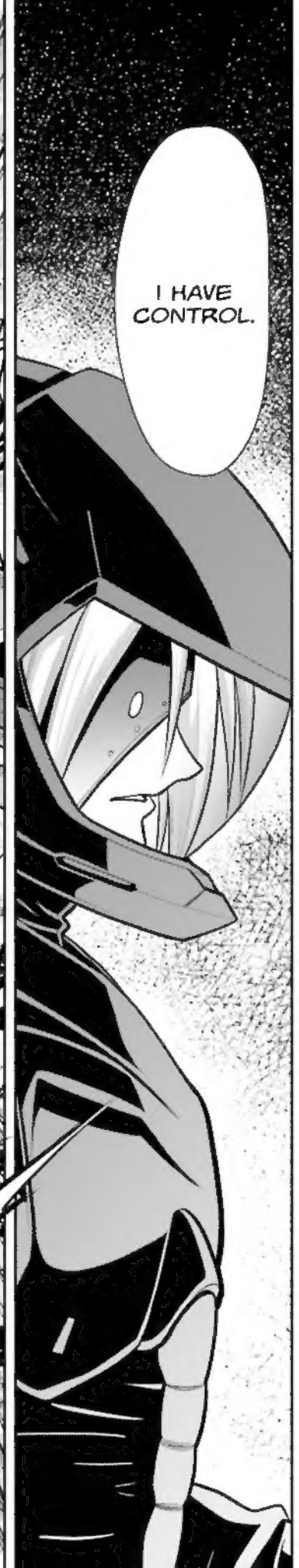
HERE
THEY
COME!

HOW
DID
THEY
GET
EVEN
FAST-
ER?!



THE
ENEMY...

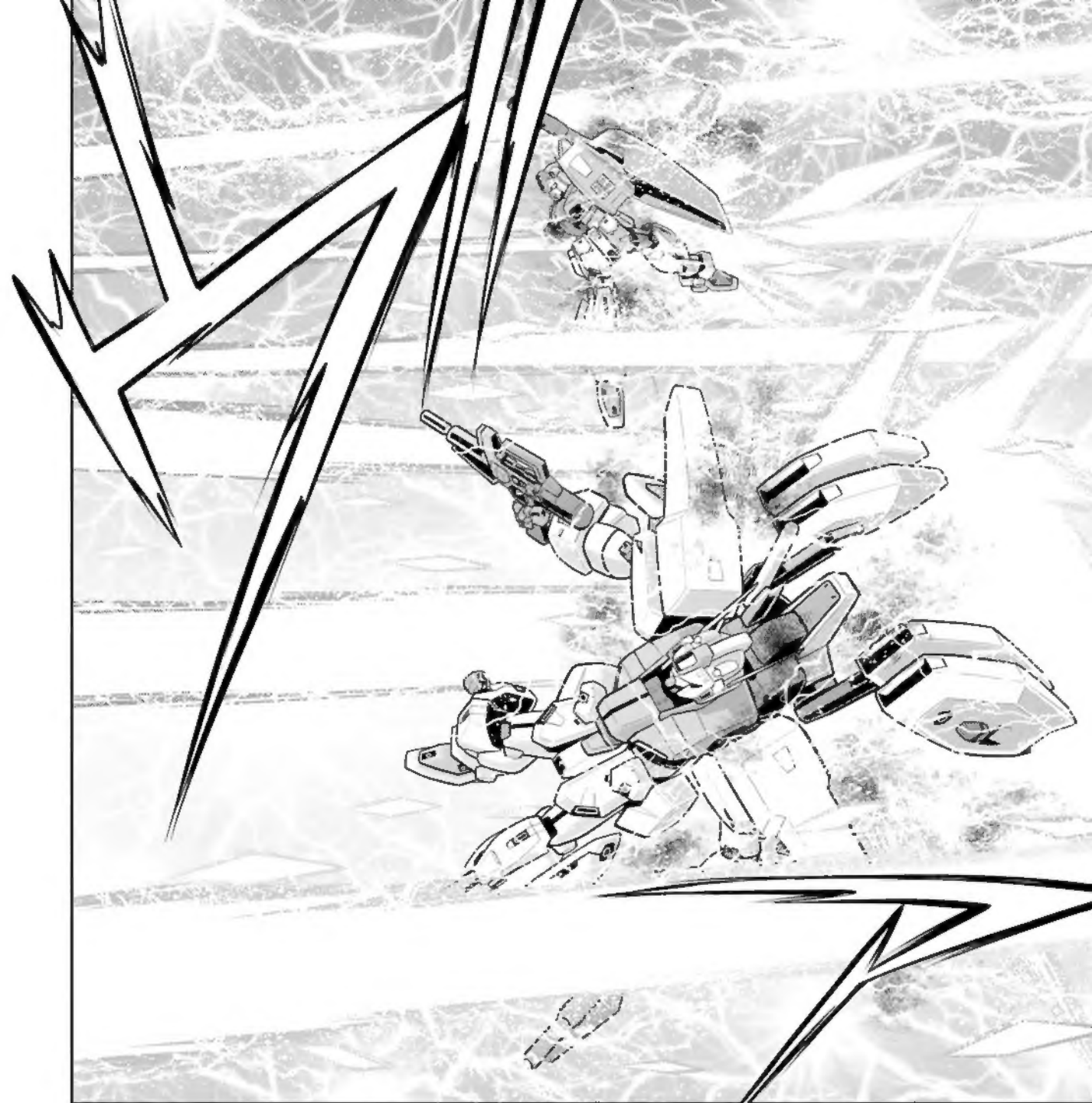
...DIES
NOW!



I HAVE
CONTROL.





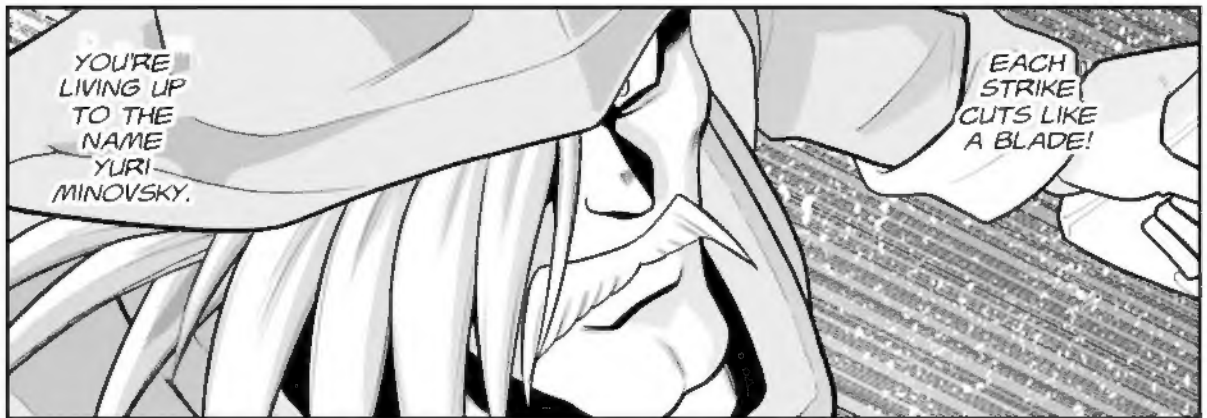


NO KID
MOVES
LIKE
THAT!



HE'S
BROKEN
OUR
FORMA-
TION?!

THIS GUY...
IS HE
TRACKING
MY MOVE-
MENTS?!



YOU'RE
LIVING UP
TO THE
NAME
YURI
MINOVSKY.

EACH
STRIKE
CUTS LIKE
A BLADE!



DODONGA!

DEATH
HAUNT
SCREW!
THIS IS
WHERE IT
BEGINS!





TOO
LATE
FOR
FEAR
NOW!

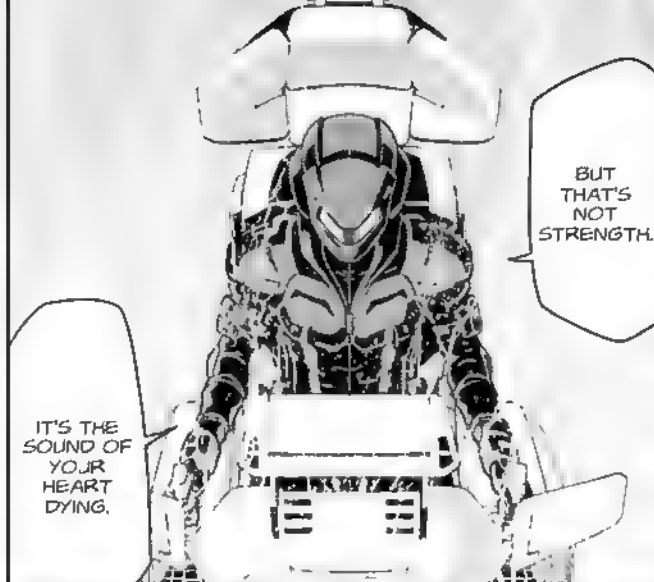
DEATH
IS
JUST
AN-
OTHER
DAY
ON
JUPI-
TER!



THEY'RE
CHARG-
ING EVEN
WHILE
DAM-
AGED?!

DON'T
THESE
PILOTS
FEAR
DEATH?!





BUT
THAT'S
NOT
STRENGTH.

IT'S THE
SOUND OF
YOUR
HEART
DYING.



HUH?

STAY ON
THE
BATTLE-
FIELD
LONG
ENOUGH
AND
YOUR
HEART
STARTS
TO
ERODE.
DEATH
BECOMES
JUST AN-
OTHER
DAILY
OCCUR-
RENCE...
UNTIL ONE
DAY YOU
REALIZE
YOU CAN'T
FEEL
ANYTHING
ANYMORE.



THEY HAVEN'T
REALIZED
THEY'RE
ALREADY
DEAD INSIDE...

THOSE
PILOTS...

...NOTHING BUT
WALKING
CORPSES

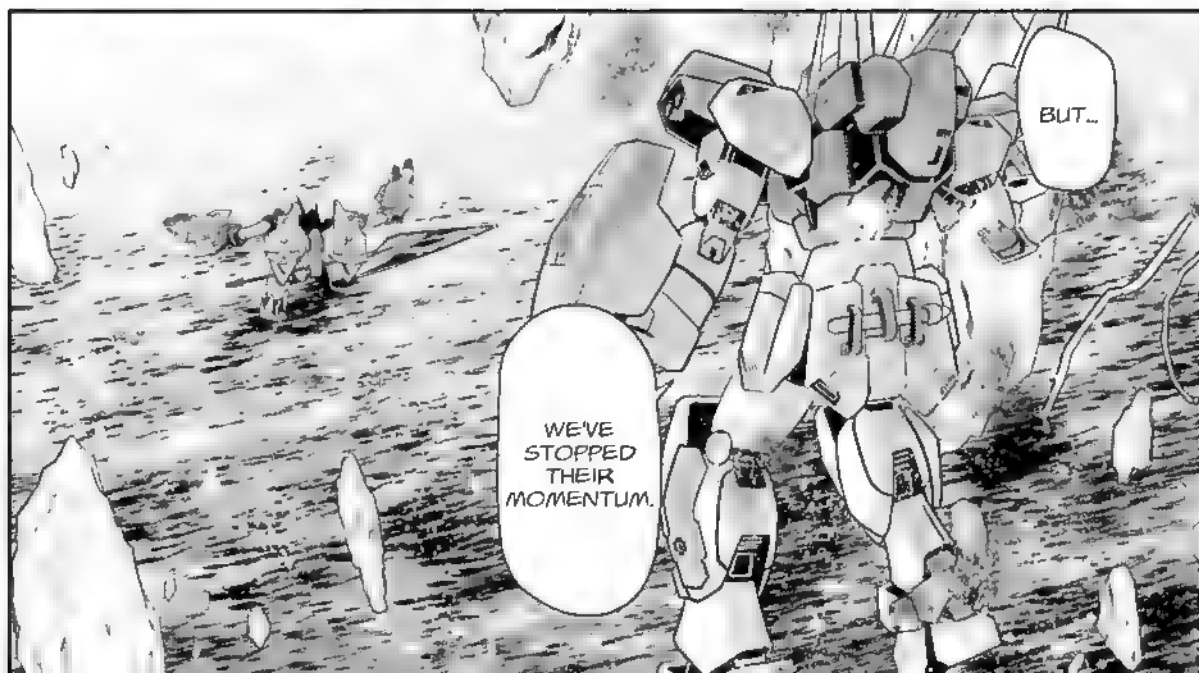


BRUTE
FORCE
WON'T
CUT IT...



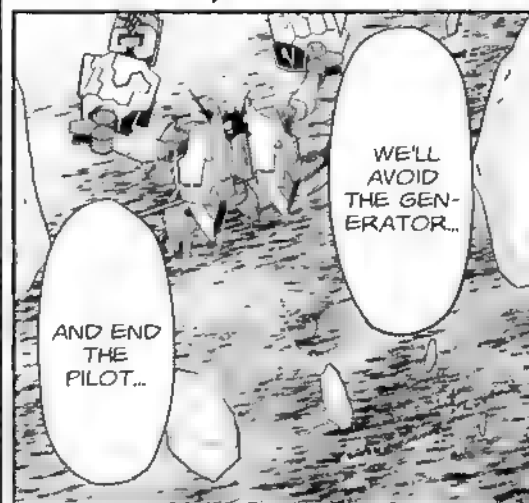
EVEN
WITH OUR
LIMITERS
OFF!

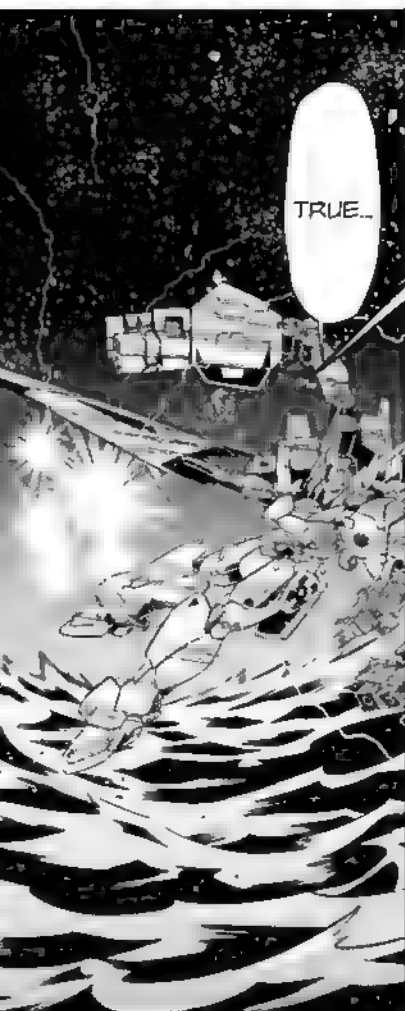
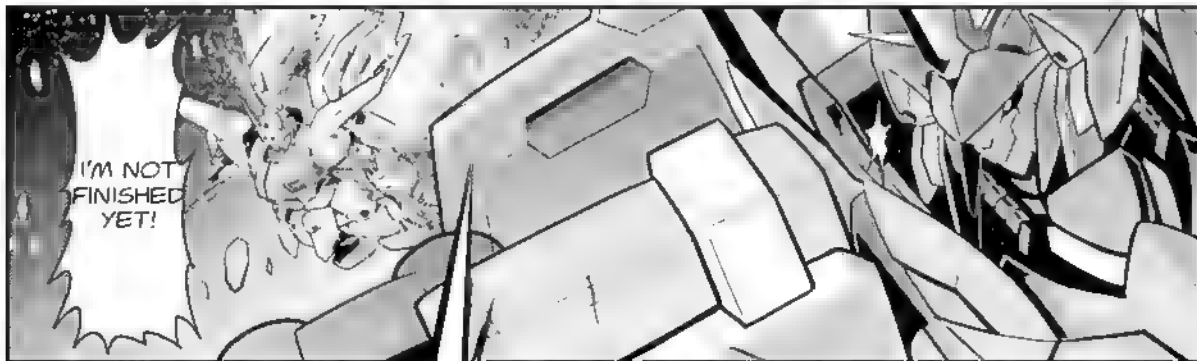
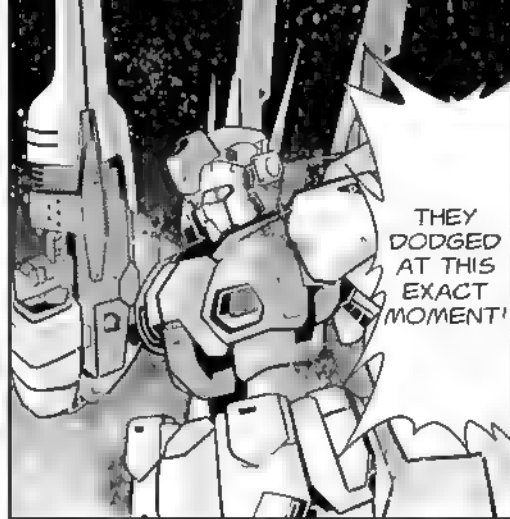
THEY
DE-
FLECT-
ED IT?!



WE'VE
STOPPED
THEIR
MOMENTUM.

BUT...







BUT
ESCAPE
WAS NEVER
THE PLAN!





AWAKENED
BY THAT
MACHINE.

THE OUTPUT'S
COMPLETELY
DIFFERENT
NOW...
THIS IS THE
GUNDAM'S
TRUE
POTENTIAL..



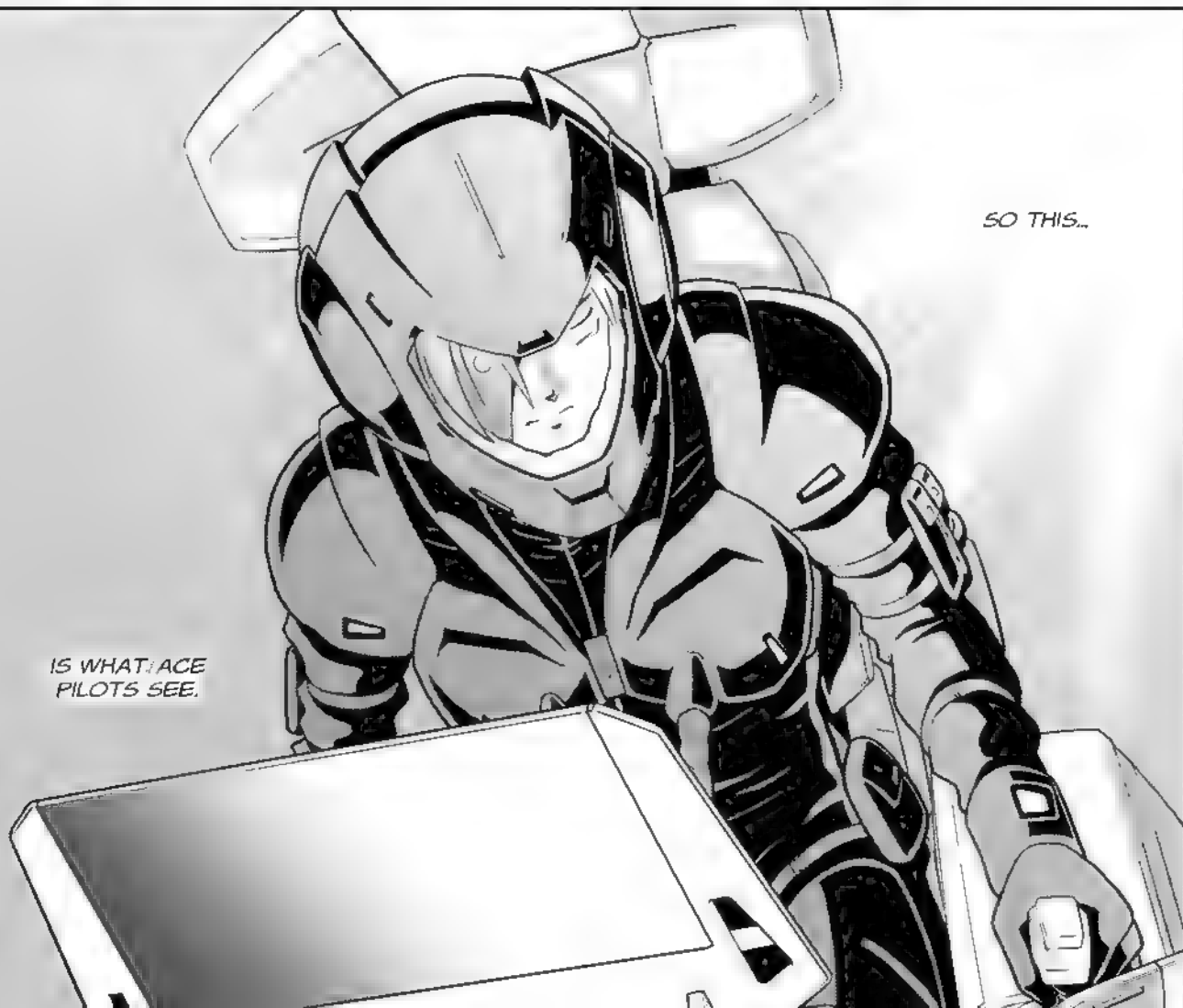
INCREDIBLE...
HE'S TEARING
THROUGH
THEIR COOR-
DINATION...



EVERYTHING
FLOWING
PAST LIKE
STREAMS
OF LIGHT.

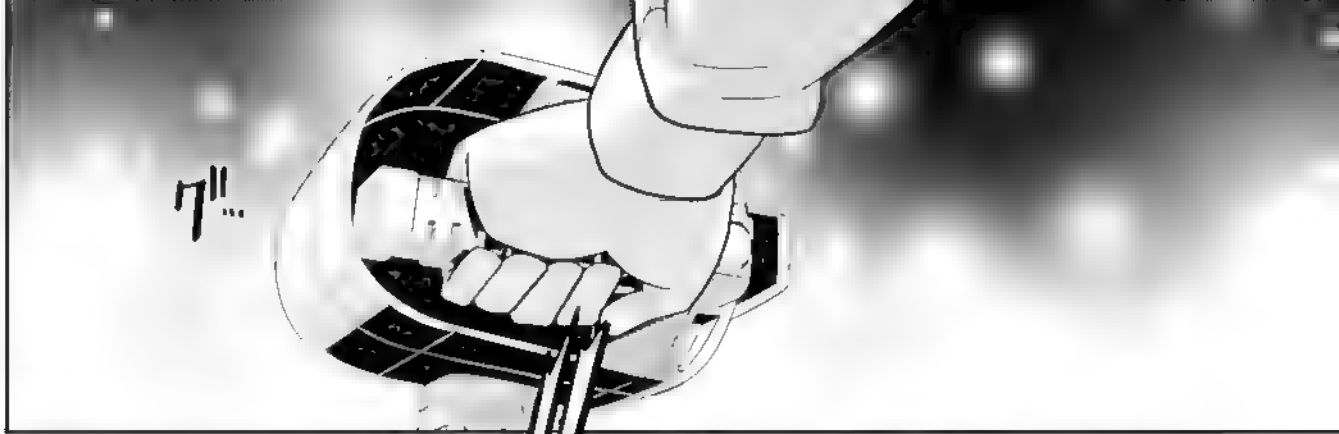
I'VE NEVER
SEEN
ANYTHING
LIKE IT IN
A MOBILE
SUIT.

AND
THIS
VIEW...



SO THIS...

IS WHAT ACE
PILOTS SEE.



THAT
INFAMOUS
MERCENARY
TEAM.

AND THESE
GUYS—THEY
HAVE TO BE
THE DEATH
GUNS...

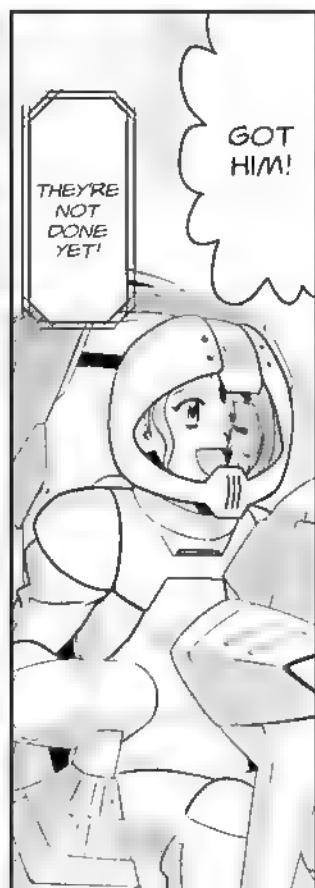
ONCE THEY
STOP
RESTRAINING
THEMSELVES...



THEIR REAL
OBJECTIVE
IS THIS
UNIT.

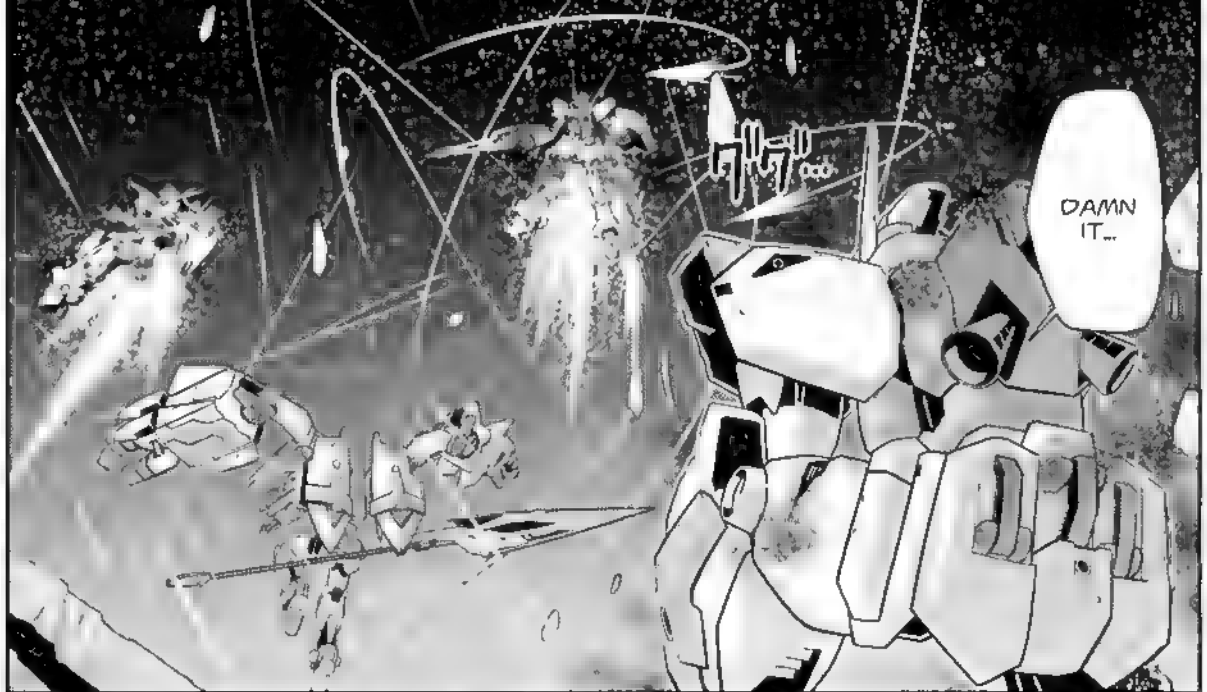
THAT'S
WHY
THEY'RE
STILL
HOLDING
BACK.

HUH?



GOT
HIM!

THEY'RE
NOT
DONE
YET!



DAMN IT...

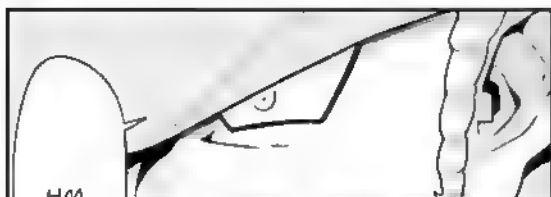


WE'LL
TEAR
THAT
BRAT
APART
AND TAKE
WHAT'S
LEFT!

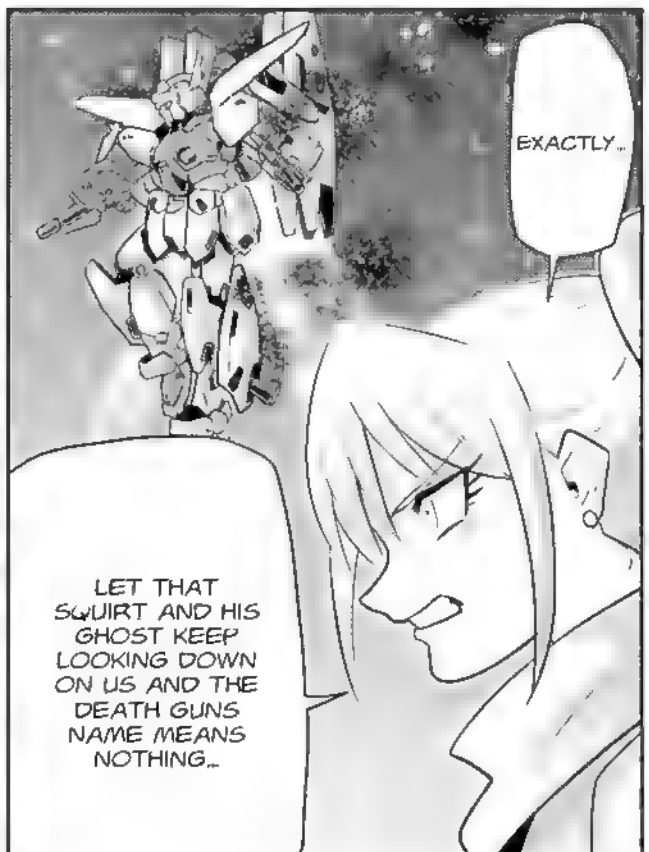
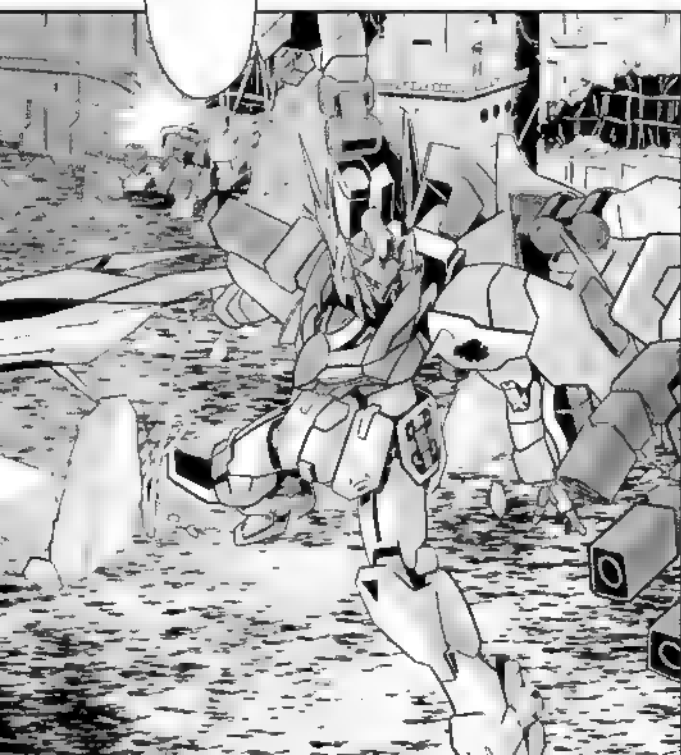
FORGET
ABOUT
KEEPING
IT INTACT!

COM-
MAND-
ER!

THE
GLOVES
ARE
OFF...

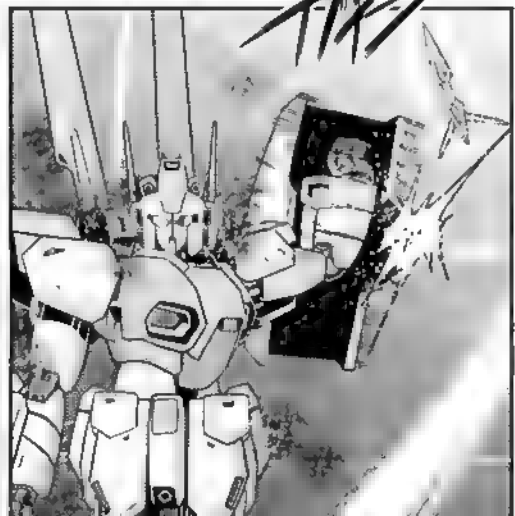


HM...



EXACTLY...

LET THAT
SQUIRT AND HIS
GHOST KEEP
LOOKING DOWN
ON US AND THE
DEATH GUNS
NAME MEANS
NOTHING...





YOUR
LITTLE
FRIENDS...

...WELL, OUR
SENSORS HAVE
LOCKED ON TO
THEM NEARBY.



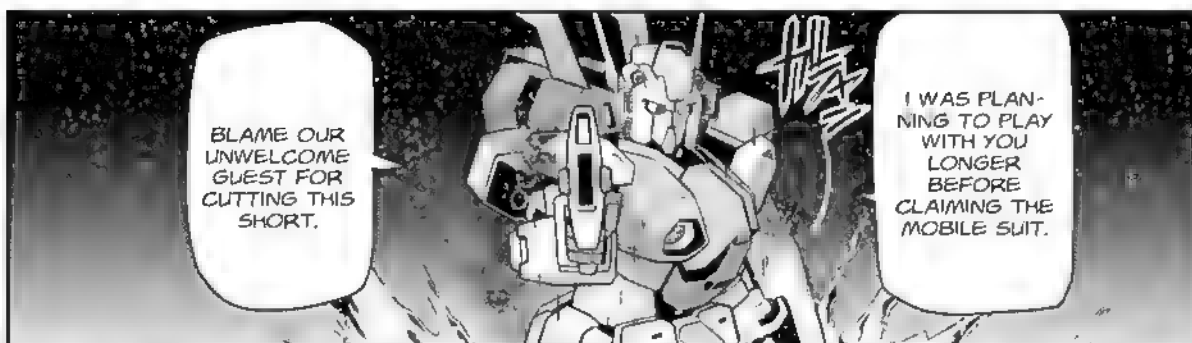
YOU
SEE...



THE SHIP STILL WON'T MOVE...



THEY'RE TALKING ABOUT US, DOCTOR!



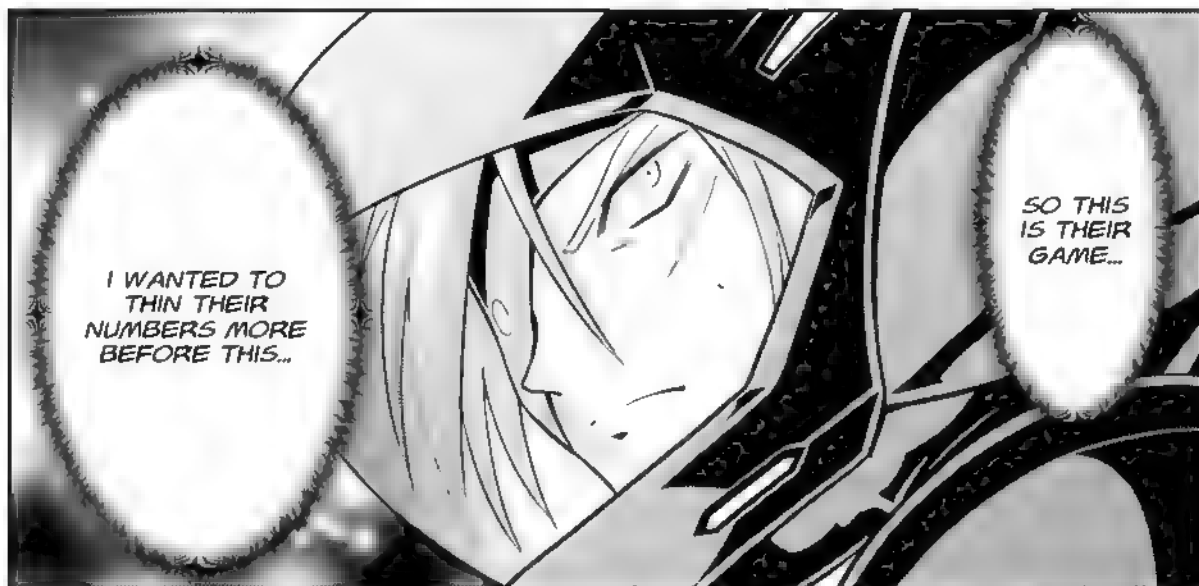
I WAS PLANNING TO PLAY WITH YOU LONGER BEFORE CLAIMING THE MOBILE SUIT.



SHUT DOWN AND SURRENDER THE MACHINE NOW...

THIS ISN'T MERCY, IT'S AN ULTIMATUM!

IVALU!

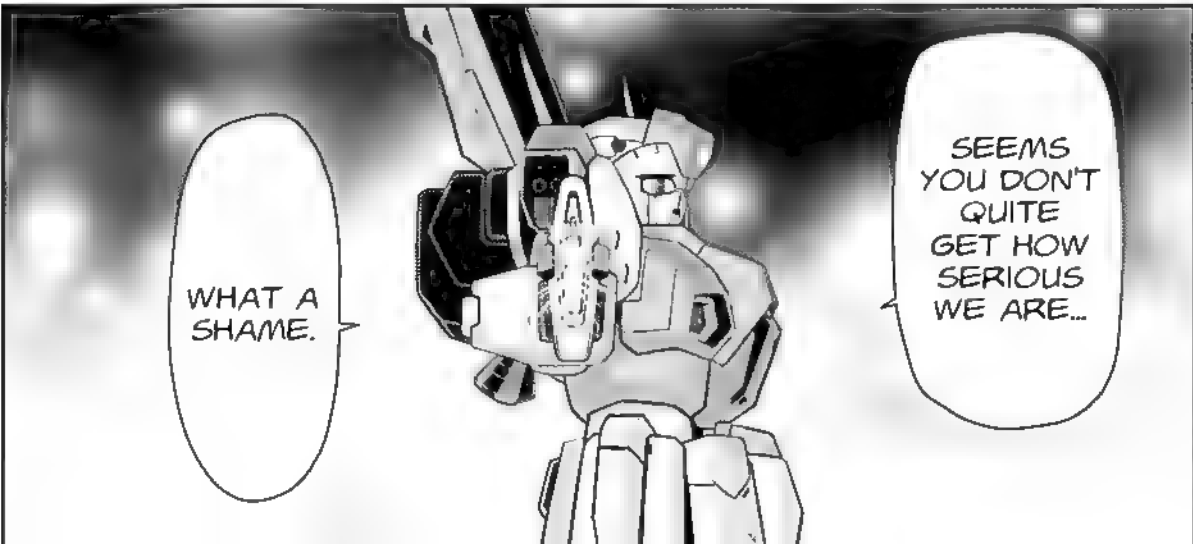




WE WILL
DO IT!



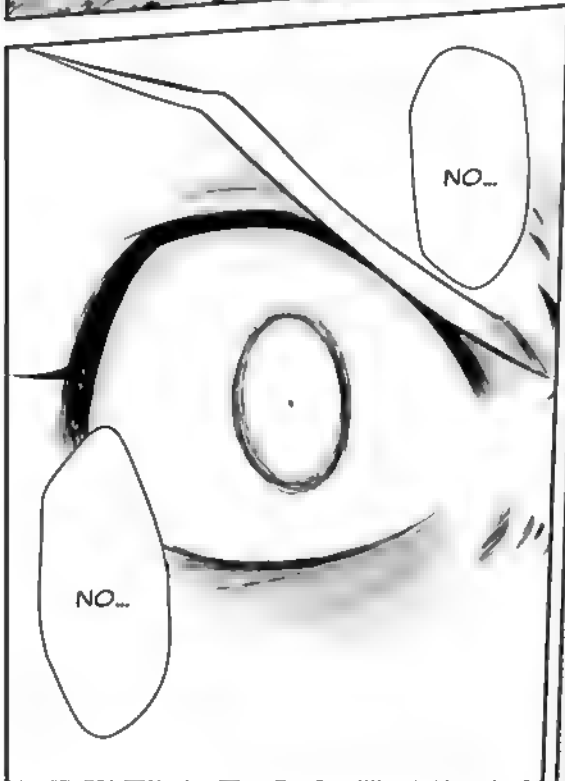
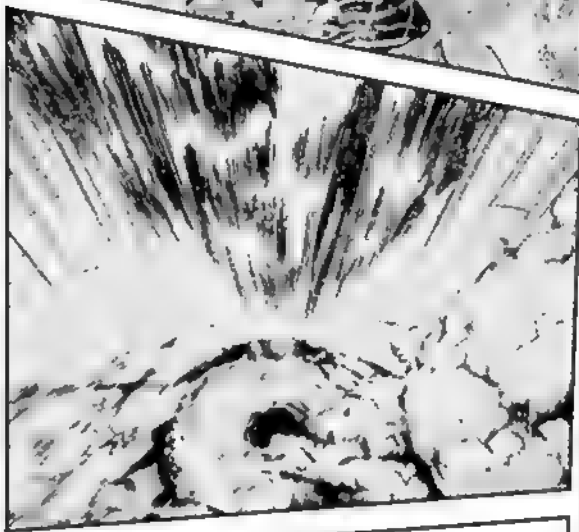
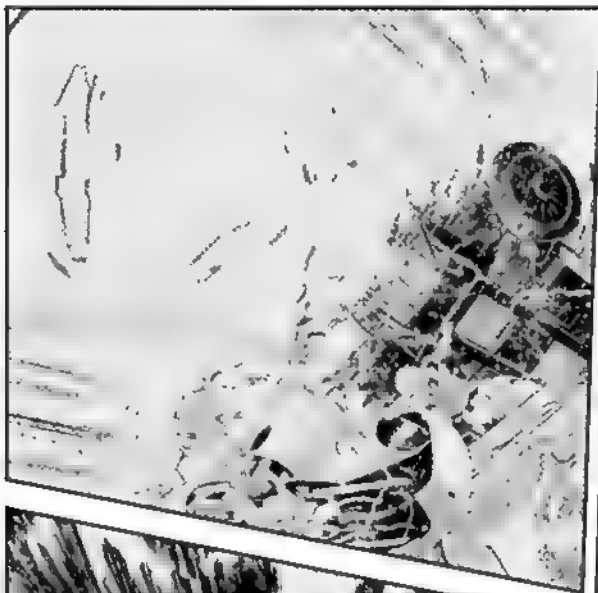
DEATH
GUNS!!



WHAT A
SHAME.

SEEMS
YOU DON'T
QUITE
GET HOW
SERIOUS
WE ARE...





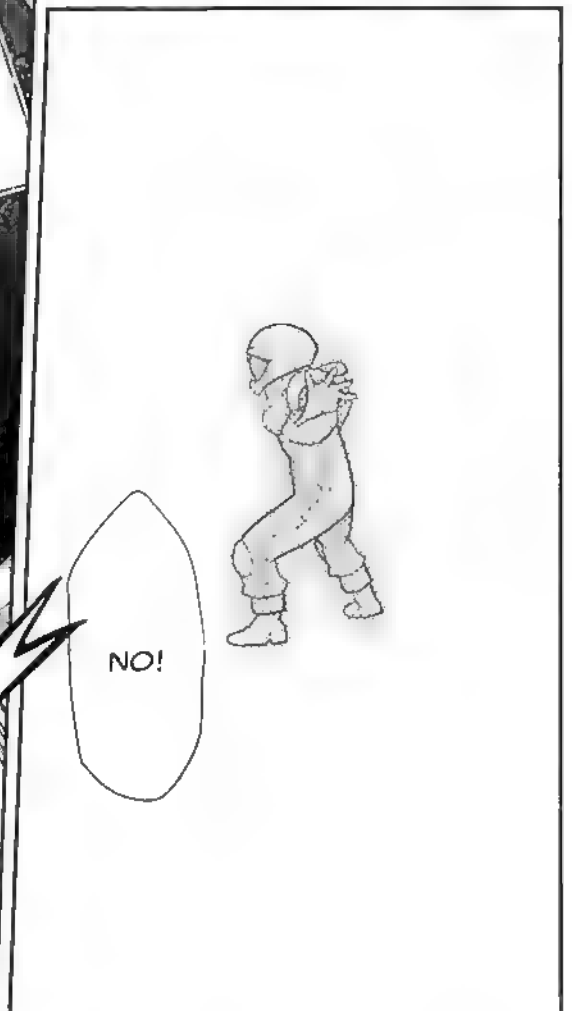
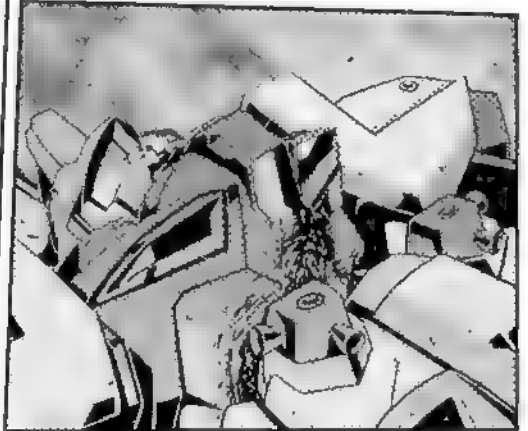
NO...

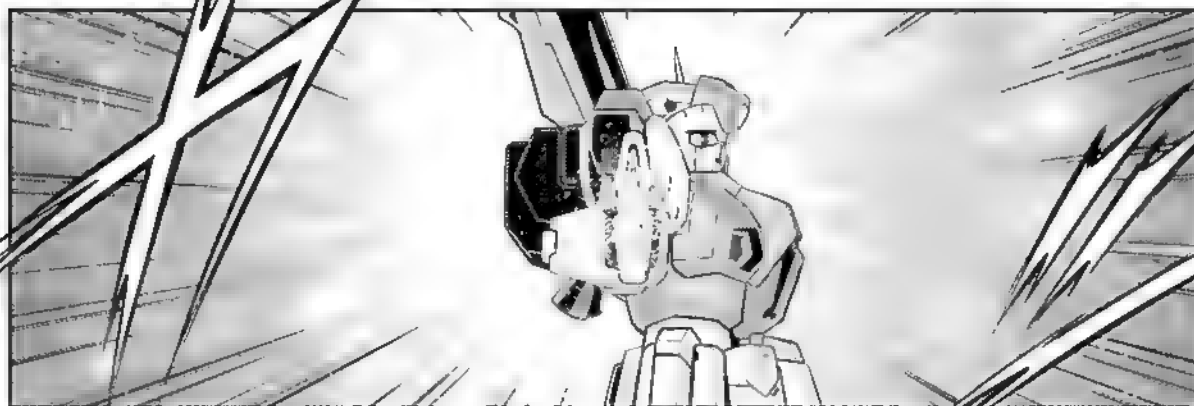


NO...

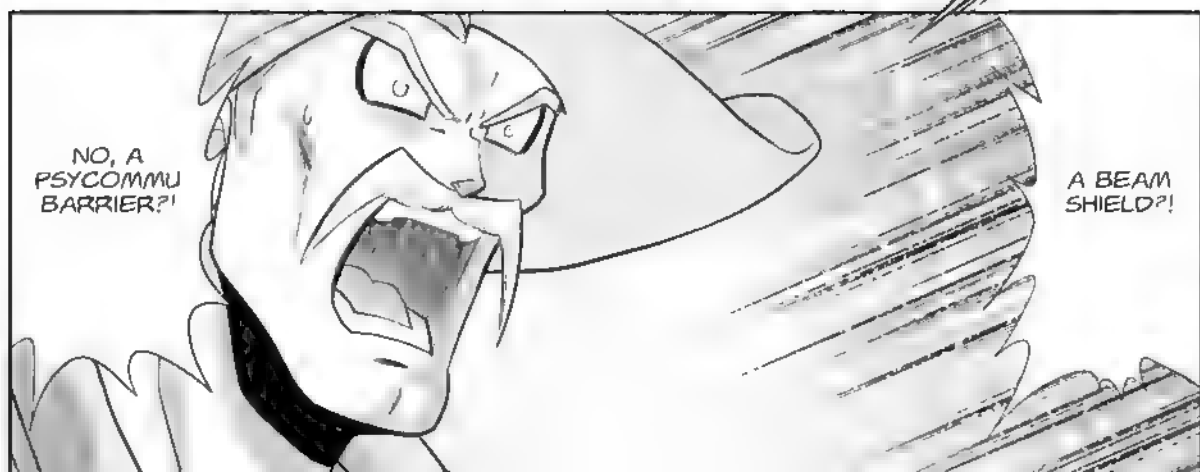
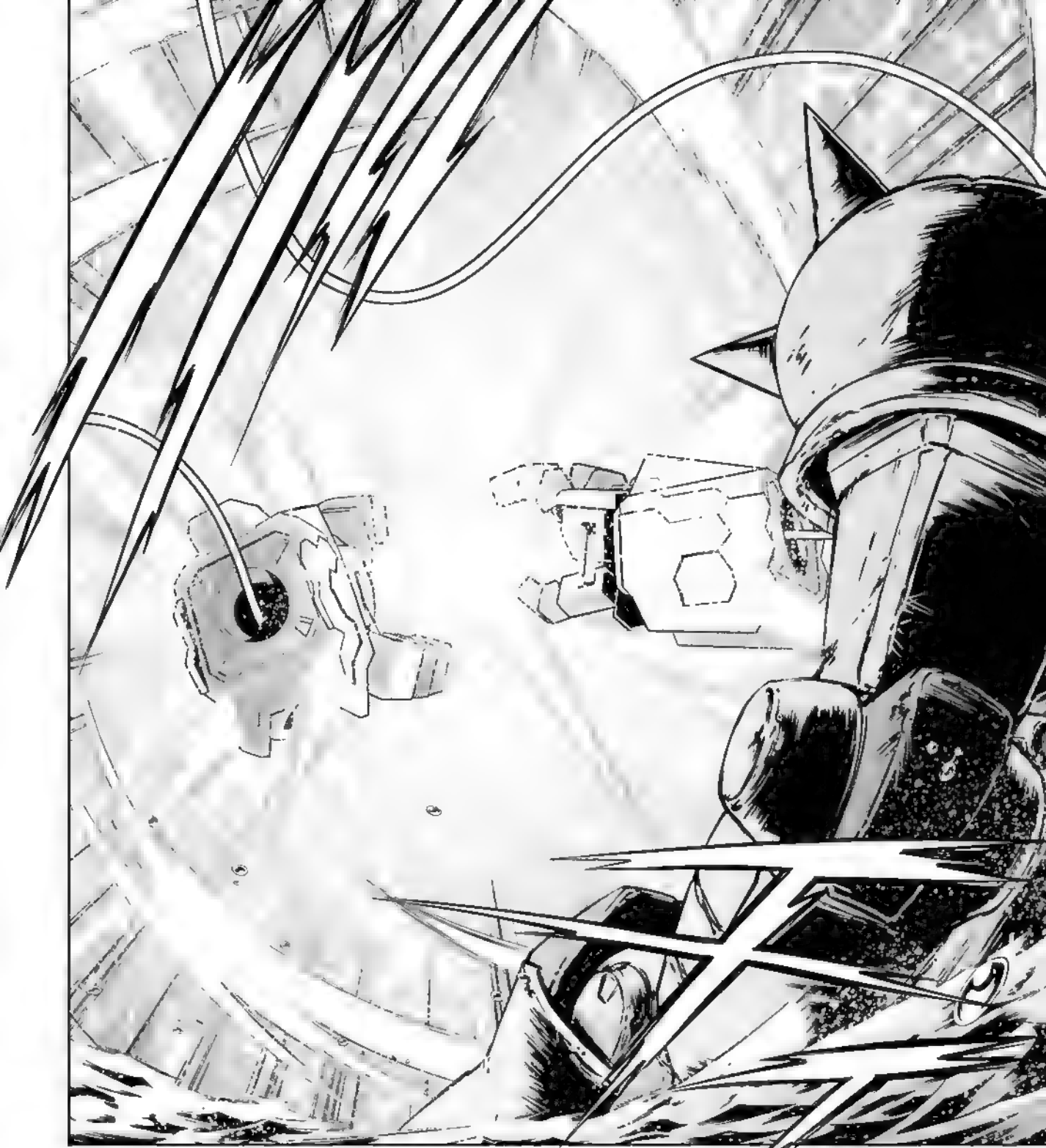


NOOOOOO!



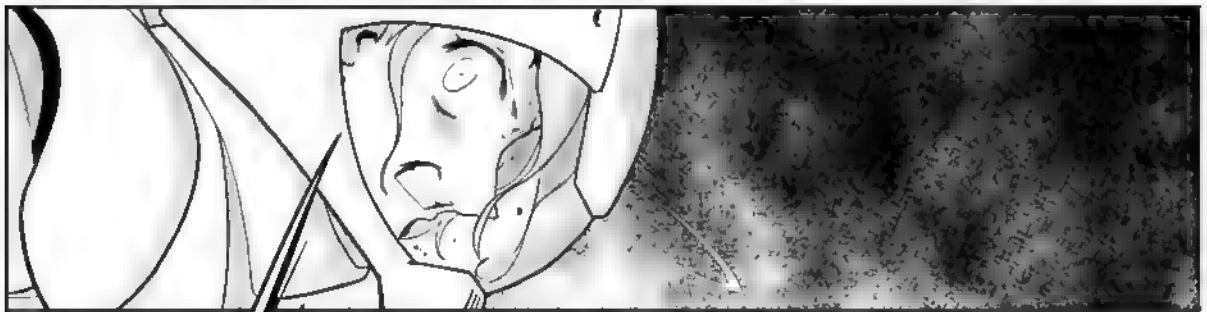
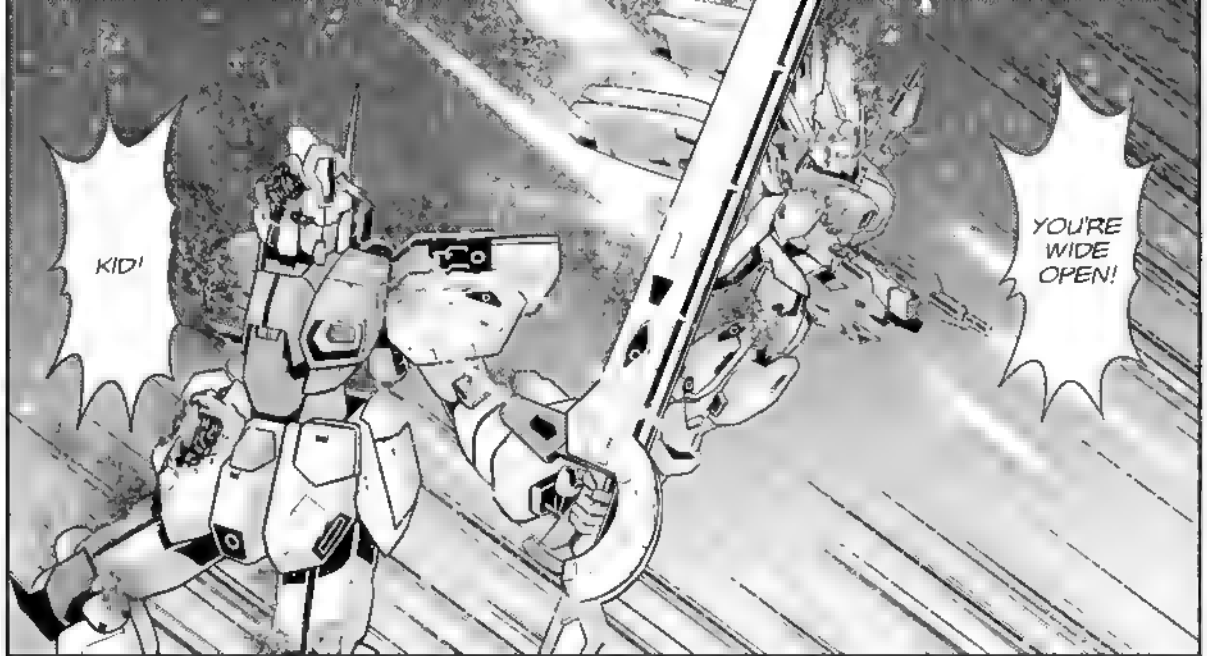


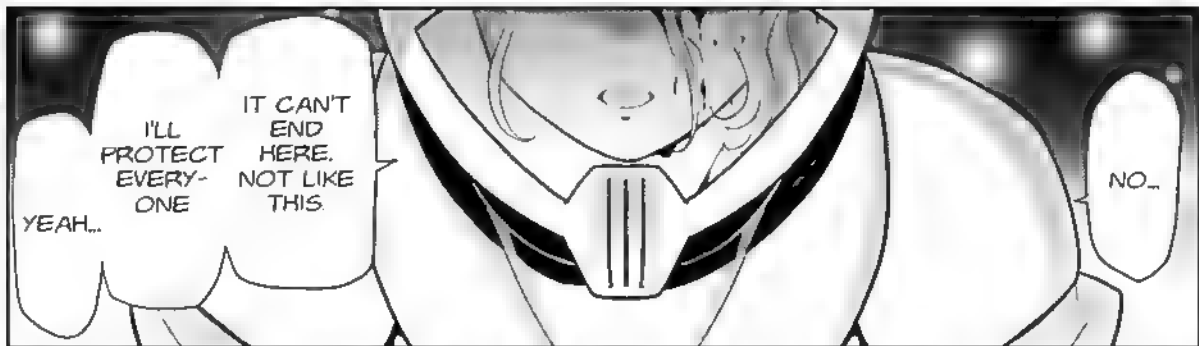
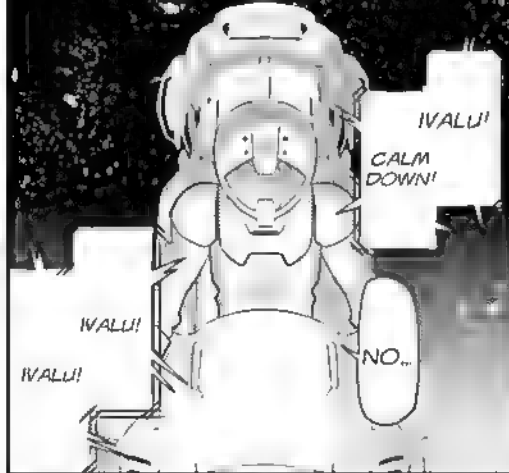


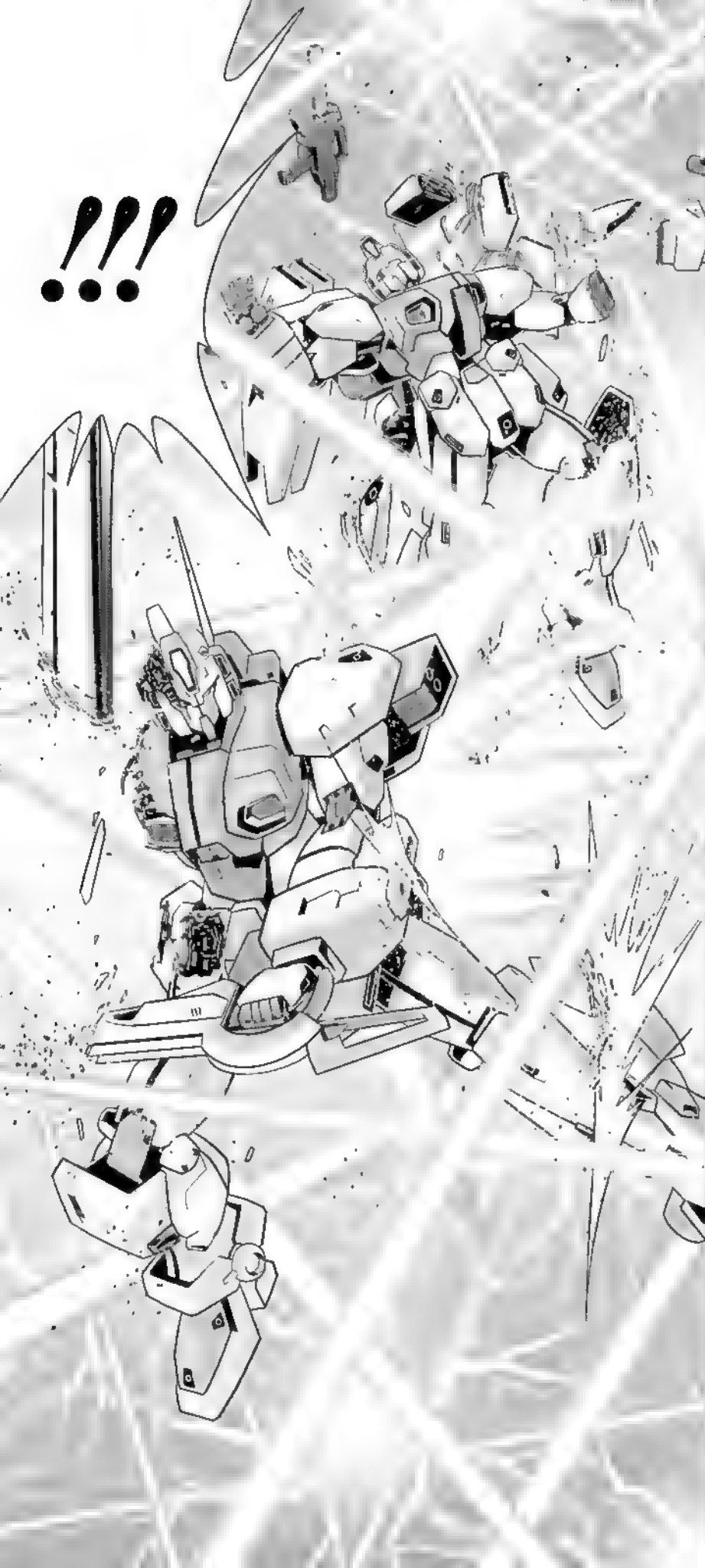


NO, A
PSYCOMMU
BARRIER?!

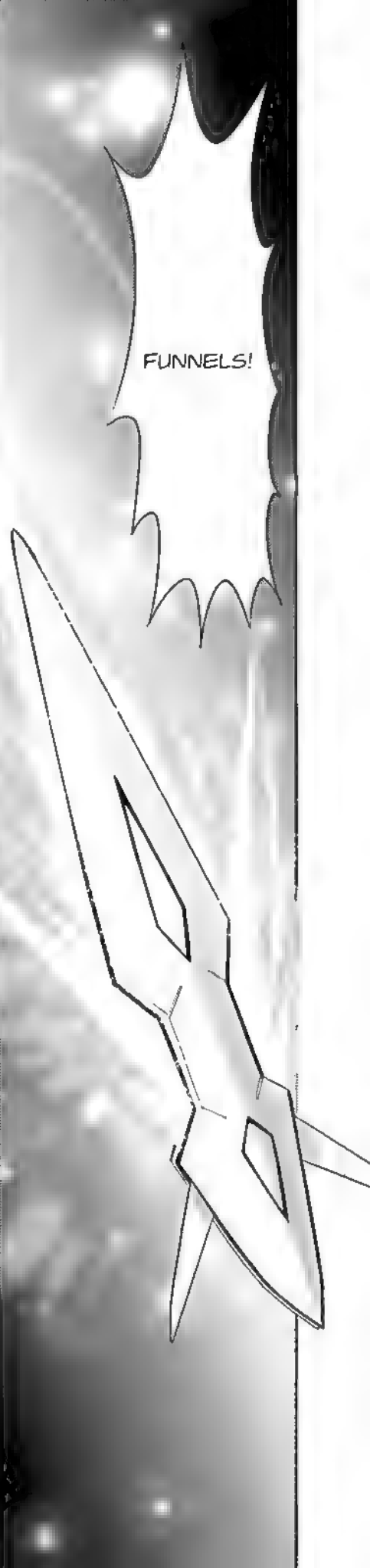
A BEAM
SHIELD?!

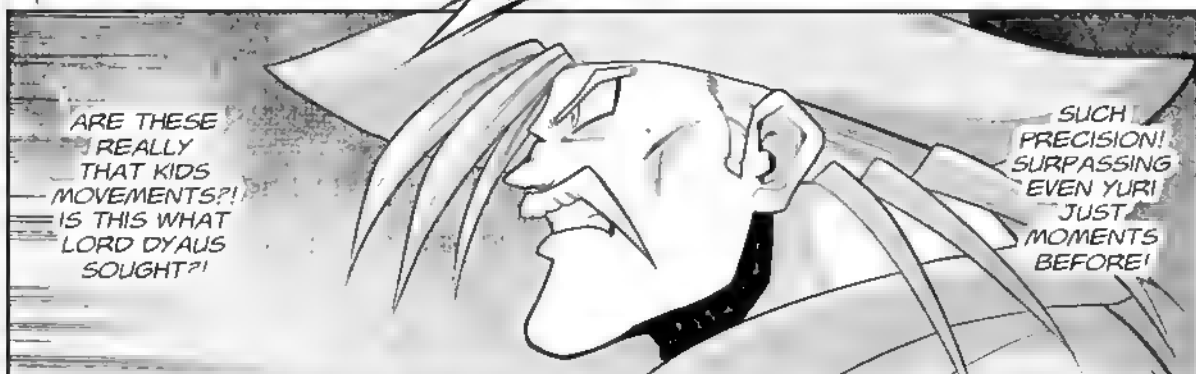
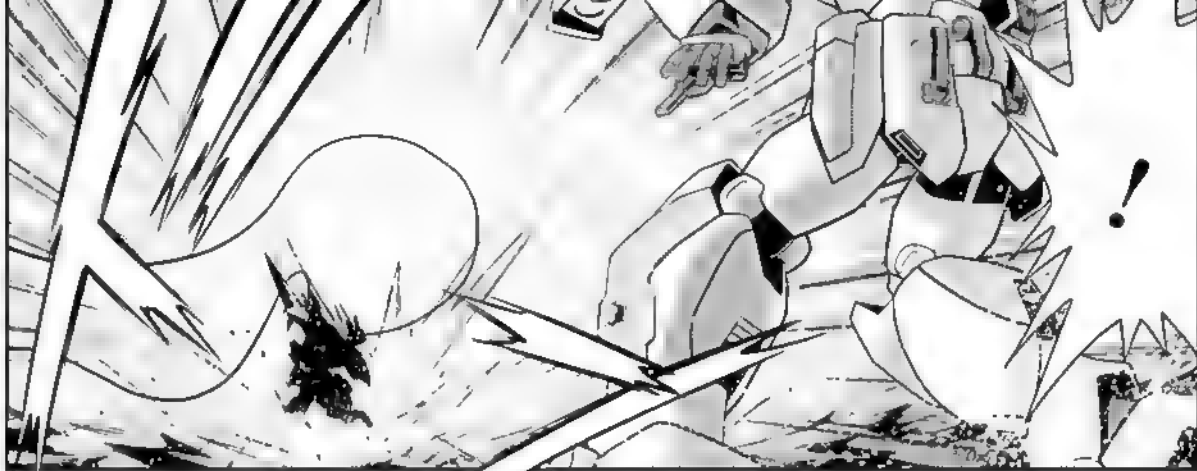






FUNNELS!

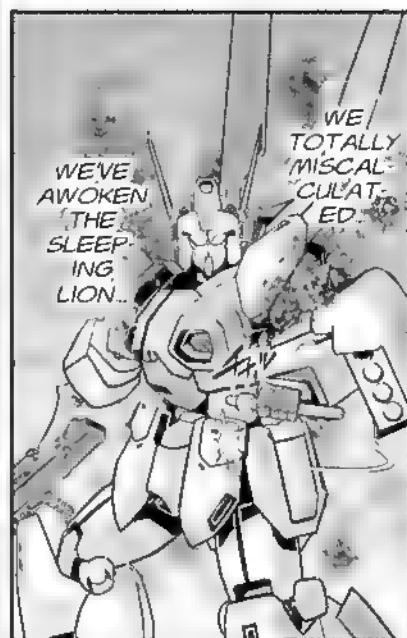






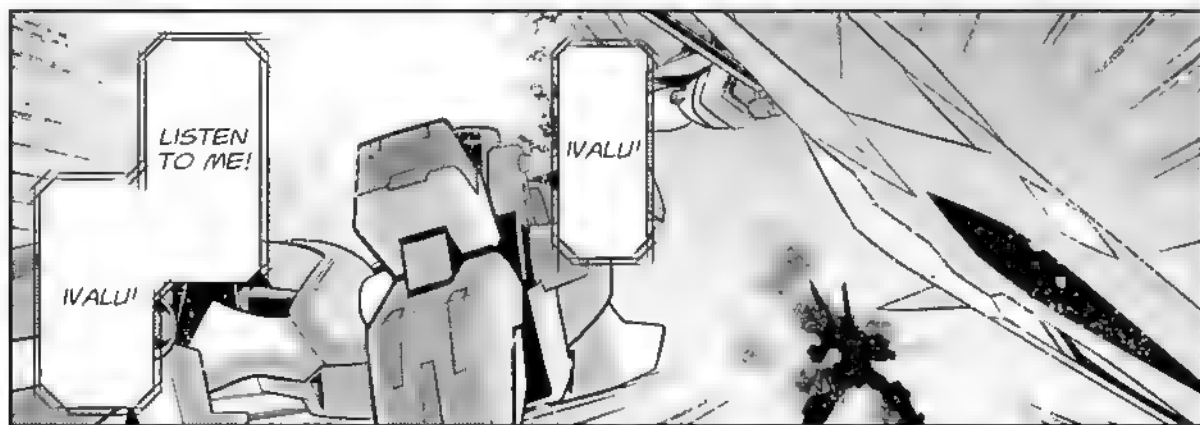
KILL OR
DIE
TRYING!

ONLY
ONE
RULE
NOW...



WE'VE
AWOKEN
THE
SLEEP-
ING
LION...

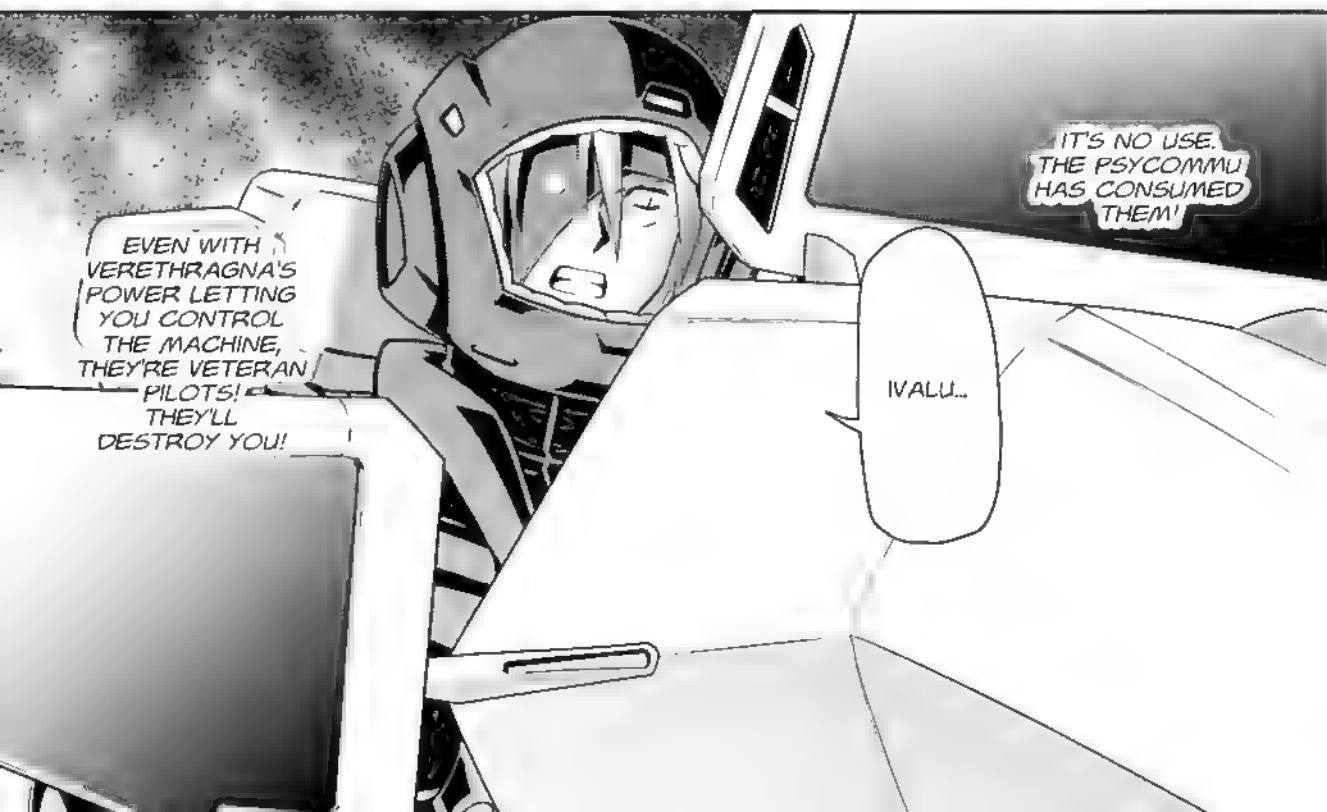
WE
TOTALLY
MISCAL-
CULATED.



LISTEN
TO ME!

IVALU!

IVALU!



EVEN WITH
VERETHRAGNA'S
POWER LETTING
YOU CONTROL
THE MACHINE,
THEY'RE VETERAN
PILOTS!
THEY'LL
DESTROY YOU!

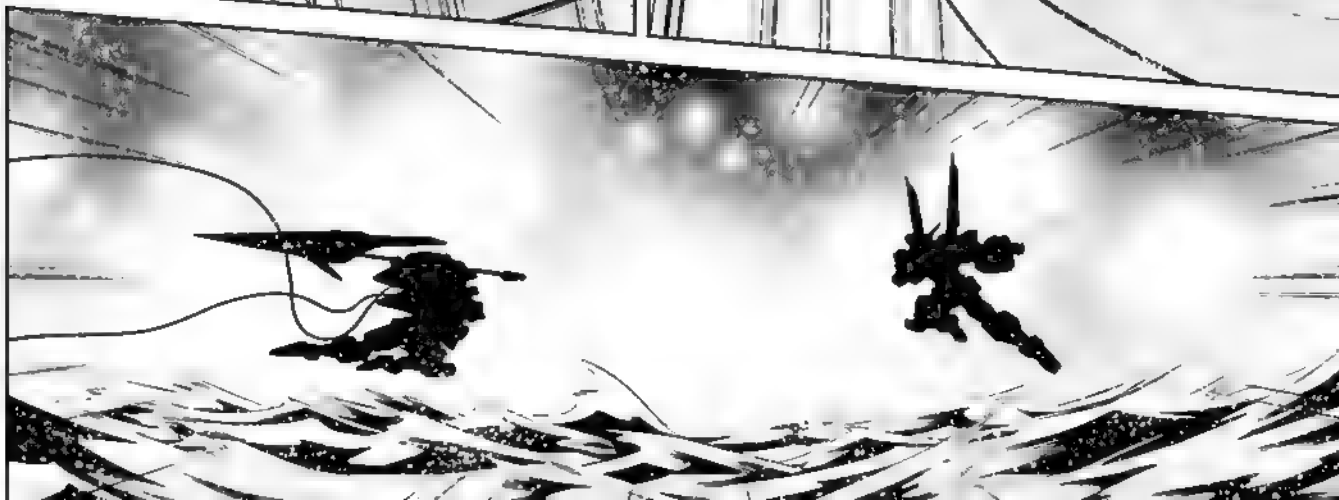
IT'S NO USE.
THE PSYCOMMU
HAS CONSUMED
THEM!

IVALU...



VANISH INTO
NOTHING,
GHOST!

DIE, CHILD
OF ZEON!







I'VE SEEN EVERYTHING...

I'VE NEEDED TO SEE.

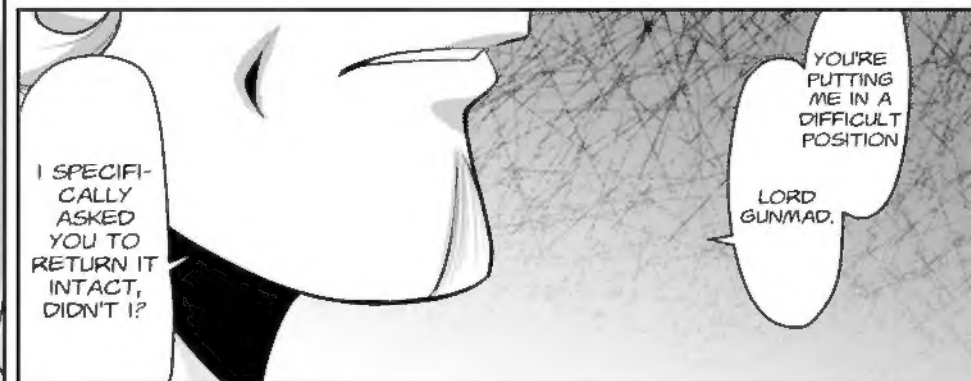
ダイヤウス卿
華麗に登場

!!



!!

!?



I SPECIFICALLY ASKED YOU TO RETURN IT INTACT, DIDN'T I?

YOU'RE PUTTING ME IN A DIFFICULT POSITION

LORD GUN/MAD.



REINFORCEMENTS?!

VSBR!



AND DESPITE MY INTEREST IN YOUR CASE...

WE'RE GOING TO STEP AWAY FROM THIS MATTER.

NOT AT ALL, YURI MINOVSKY.

A NEW PROJECT BROUGHT TO YOU BY A MAGAZINE THAT ACTUALLY EXISTED DURING THE U.C.0140s!

MONTHLY MOBILE MACHINE

MINI EDITION

VOLUME 26

PSEUDO-PERSONALITY AI ROUNDTABLE <<<



GETTLE
DUPRE

Active officer in Side 2, karaoke enthusiast, sensitive to economic inequality between Sides



FARES
MUAWAD

Military historian, known as the realist among the magazine's regular writers



CARMINE
EXETER

AI specialist at Ameria Institute of Technology, longtime reader of Monthly Mobile Machine



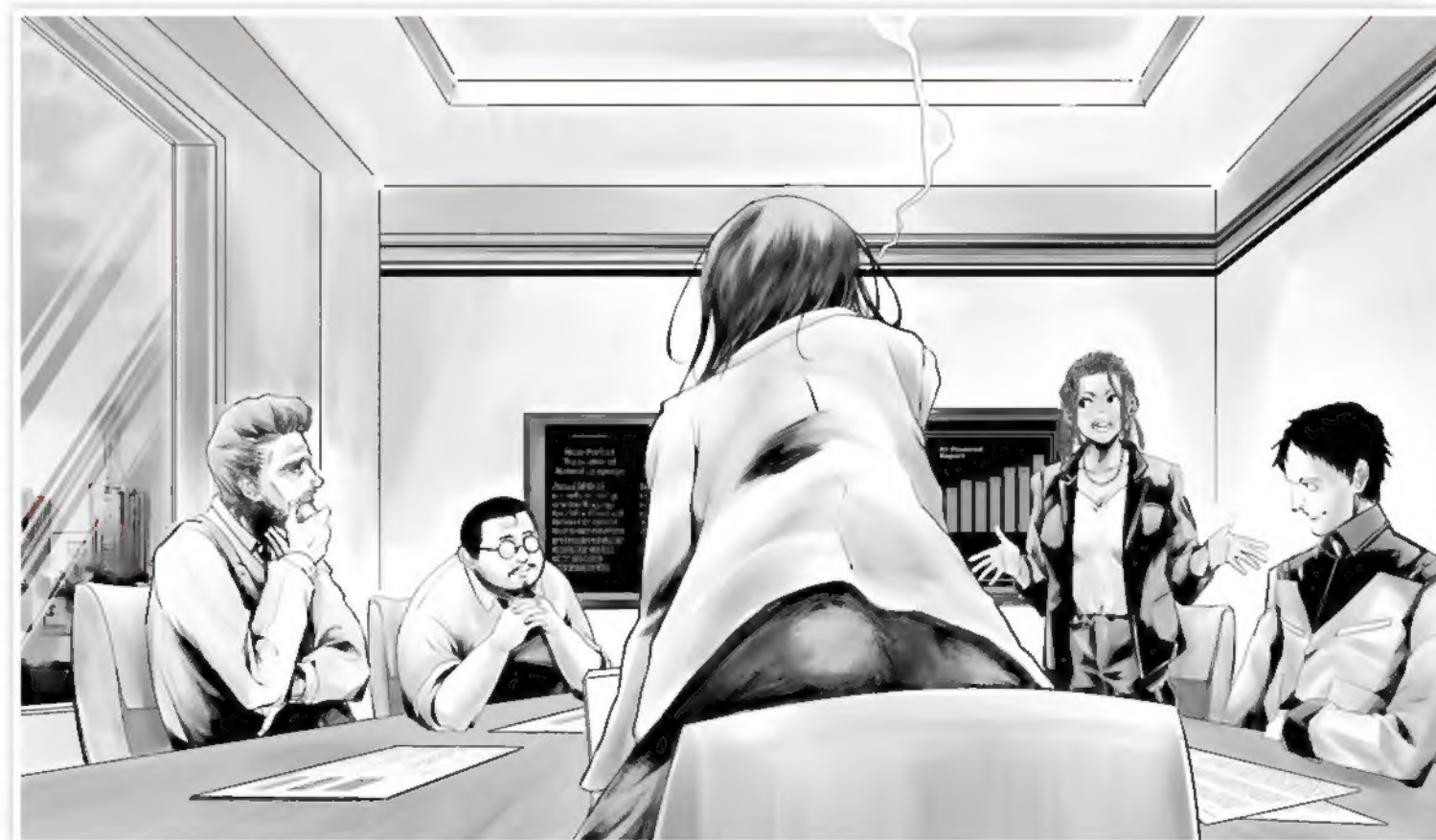
LEE
DONGFEI

Talented Chinese engineer, currently with the Public Corporation for Space Transport



DINA KIM
GINZAEVA

Lead military writer for Monthly Mobile Machine. Married, smoker.



—Let's begin our discussion about pseudo-personality AI systems with our newly reformed writer panel.

Dina: I'm military writer Ginzaeva. Today we're focusing on AI in mobile suits.

Fares: Historian Fares here. This is quite a profound topic we're diving into.

Gettle: Gettle Dupre at your service. As a field officer, AI is a fascinating subject.

Lee: It's been a while. Lee Dongfei here. Just returned from Earth.

—For those unfamiliar, Lee was formerly a brilliant engineer at Kilimanjaro Arsenal. We're delighted to have him contributing again.

Lee: I'm currently with the Public Corporation for Space Transport. I must say, Ameria has changed dramatically! I've never felt such energy here before.

Gettle: That's the fruits of revolution for you.

—And today we're joined by Professor Carmine Exeter from Ameria Institute of Technology, an AI expert.

Carmine: My specialty is applied AI psychology. I've been reading *Monthly Mobile Machine* since high school - never dreamed I'd be invited. Particularly loved your *Pursuing Zaku Speed* piece - a masterpiece of reportage.

Fares: Haha, that was my piece. Though looking back, there's still much to revise about the GT-FOUR coverage, especially regarding the G-4 project.

Dina: Indeed - the G-4 project is only declassified for space and air forces, while army and navy components remain classified.

Fares: That's an intriguing point, and just the air force project alone has fascinating aspects... but let's save that for another time. We have limited space.

—Today's focus is on F90's pseudo-personality AI. Please save that story for another time (laughs).

Carmine: Yes, please do share that sometime (laughs).

Fares: That would be excellent (laughs).

Gettle: So, regarding pseudo-personality AI... I'd like to start with the basics, if I may. What exactly is F90's pseudo-personality AI system?

—Just hearing the term makes it sound like the AI has a personality similar to ours.

Dina: Lee, could you first explain what AI means in the context of mobile suits?

Lee: Of course. While everyone here knows this, let me explain for our readers: no mobile weapon can operate without AI - what we call learning computers.

Carmine: Educational or learning computers adapt to their situations, learning from operational data and optimizing accordingly. Our society couldn't function without them.

Dina: So while a human inputs commands like walk, shoot, or fly, it's the learning computer that actually executes these actions?

Lee: Consider this scenario: your Zaku needs to pick up a machine gun from the ground. How much should it bend based on terrain and gravity? How far should it extend its arm? How much force is needed to grip and lift the weapon? How should it coordinate the mobile suit's limbs during the lifting motion? When should it stop lifting? Theoretically, you could input all these parameters manually, but it's practically impossible.

Dina: Just programming the movement of five fingers would take all day (laughs).

Carmine: Mobile suit development is essentially the struggle to control and operate a human-shaped machine. Technologies like the Minovsky reactor and mega particle cannon are relatively simple space technology spinoffs in comparison.

Fares: This highlights how incredibly complex mobile suit operations are.

Lee: Consequently, mobile suit AI must instantly predict and execute the pilot's intentions.

Dina: So "grabbing and picking up a machine gun" is the pilot's

"intention," while the learning computer's role is to execute that intention?

Gettle: The control stick and pedals are merely intention input devices - the mobile suit performs the actual movements. We pilots are like cavalry from past centuries - the horse does the running, but how well the rider communicates their intentions determines their skill.

Carmine: As a result, mobile suits' learning computers possess a kind of personality. While it's not true self-awareness, it's definitely more advanced than the personality level of Haro-series pet robots.

Lee: This is an inevitable result of learning computers accumulating experience and basing their responses on that experience.

Dina: Could you elaborate on that?

Lee: Well, when a mobile suit experiences combat and is attacked by a beam rifle, there are various possible responses - deploying beam shields, evading, or deflecting with armor. Many responses are possible, but the result is singular.

Carmine: As these unique experiences accumulate, the learning computer develops individuality.

Fares: So using the previous example, if an AI repeatedly used beam shields against beam rifle attacks, it would prioritize shield deployment in future encounters?

Gettle: Learning computers with peculiar habits can be difficult to handle. I wish they'd make them more manageable during testing, but... well, it's complicated, so that's the difficult part.

Fares: From a practical standpoint, isn't it straightforward?

Gettle: Yes. AIs with biased personalities - I use the term 'personality' for lack of a better expression...

—AIs can indeed show overwhelming advantage in specific situations. With ace pilots or suspected Newtypes, the matching learning computers aren't balanced but rather specialized. However, specialized isn't always the answer...

Lee: This is precisely why shoefitters are crucial.

—Shoefitters?

Carmine: Also known as psychological trainers or simply teachers - they're specialists who shape AI personalities through virtual space simulations before implementation in mobile suits.

Dina: The term "shoefitter" stuck because they adjust mobile suits to handle like a well-worn pair of shoes, even for rookie pilots, right?

Lee: Correct. While Zeon pioneered the basic theory, the Federation rapidly developed their own program during the RX Project.

Fares: During the One Year War, the entire Earth Federation had only twelve qualified shoefitters - it's an extremely specialized profession.

Carmine: Shoefitters and learning computers often develop an almost codependent relationship, becoming like parent and child. The initial personality imprinted by the shoe-fitter determines the AI's future capabilities.

Gettle: The RX-78's exceptional AI performance - sometimes discussed as if it were the only mobile suit with a learning computer, was largely due to this AI development expertise.



Fares: Credit goes to Technical Lieutenant Tem Ray and his assistant, the Federation's top shoe-fitter Lieutenant Christina MacKenzie. Lieutenant MacKenzie, who later served as both test pilot and shoe-fitter for the RX-78NT-1, was an invaluable figure in mobile suit development history.

Dina: There's even a story that her trained AI Alex achieved a Newtype-like awakening before Operation Odessa, predicting Lalah Sun's death?

Carmine: (wry smile) Well, that's supposedly written in her diary, but it's just interesting underground occult talk. Who's actually seen her diary? (laughs)

—We've digressed, but what makes F90's AI specifically "pseudo-personality?" All learning computers seem to have some form of pseudo-personality.

Dina: That's the key point. Even within SNRI, specifications about the pseudo-personality AI remained largely classified. All we know is it's a new generation learning computer developed on Jupiter, inseparably linked to F90's holo-cube type synapse computer hardware.

Gettle: That sounds no different from the learning computer in the RXF-91 Silhouette Gundam. The RXF-91's hardware should be equal or superior to the holo-cube type synapse computer.

Carmine: Focus on the "inseparable" aspect. The pseudo-personality AI can't be copied. While data feedback is possible, the personality is bound to the synapse computer - like a brain whose soul can't be extracted.

Fares: Honestly, such an impractical system would only be tolerated in an experimental unit like the F90. It couldn't be used for AI development in F91 and later models - in fact, the pseudo-personality AI was deemed dangerous and replaced with a bio-computer in the F90II-B F90 Dash.

Dina: There are rumors that legendary ace pilots' personalities are stored in the AIs named A.R. and C.A., aren't there?

Gettle: Machine pseudo-personalities are just the result of our emotional projection. I don't believe there's anything like a soul involved.

Lee: I'd like to dismiss that possibility... but according to reliable sources, during the One Year War, research was conducted on preserving the personality of a comatose girl named Marion Welch in an AI system called EXAM, using it as part of a learning computer.

Gettle: Such occult nonsense?

Carmine: It's an open secret in military AI research. It spawned derivative technologies like HADES and was later inherited by the Newtype Labs.

Gettle: But it never became mainstream technology. Such eerie systems are unusable.

Lee: The research supposedly ended with the One Year War, though some say it continued quietly.

Dina: There are also stories about the Newtype Labs trying to imprint Cyber-Newtype personalities or souls into their OS using bio-sensor technology, right?

Carmine: While that's probably underground speculation... there is actual AEUG data suggesting that the bio-sensor system developed by Technical Lieutenant Franklin Bidan might have absorbed and learned from something like memories through some kind of "field."

Dina: Machines becoming vessels for souls?

Lee: That's entirely possible... we know that natural forms and situations themselves have memory functions.

Gettle: But that doesn't mean dead people's souls inhabit AI (wry smile).

Lee: No, no. The humanoid form is organic life's ultimate creation, with maximum flexibility in every sense.

Carmine: We know the AEUG prepared core fighters and bio-sensors for each pilot of the MSZ-010 Gundam ZZ and collected their data.

Dina: Carozzo Ronah believed he could organically link memories and emotions by storing psycho-waves in bio-computer bases, ultimately hoping to transform humans into purely spiritual beings, right?

Fares: Similarly, since Amuro Ray's and Char Aznable's memories are stored in psycommu, some engineers believed they could be excavated and operated as AI - at least, some technicians thought so.

Carmine: If we could properly teach human memories, that would be possible. I hear SNRI in Japan was interested in such possibilities?

Lee: There were rumors that SNRI and Buffo were eager to recover the MSN-04 Sazabi left at Axis.

Dina: The MSZ-006 Zeta Gundam and MSZ-010 Gundam ZZ's locations are frozen by the Federation government. While some say the latter was taken to Jupiter, they probably could still retrieve the data, right?

Gettle: Everyone, we're getting into rather evidence-free territory. Let's stay level-headed.

—Ultimately, pseudo-personality AI didn't become mainstream technology, and bio-computers became the standard.

Carmine: Bio-computers are just a hardware variant - often misunderstood, but simply excellent sixth-generation machines. The key is that using biological components allowed closer approximation to human brain synapses, making it easier to access intuition and memory-like domains, resulting in superior educational computers.

Lee: The bio-sensors and psycho-frame introduced in the F91 create systems that access pilot memory regions and transmit

mobile suit sensor information and pilot intuition - these aren't strictly bio-computers themselves.

Dina: And there was Carozzo Ronah's approach of organically linking Swessem cells with bio-computers to bring biological systems closer to machines, right?

Carmine: Correct. The F91's approach was purely Dr. Monica Arno's concept. When synapse computers and bio-computers began mimicking human brain structure, researchers saw infinite possibilities.

Gettle: Well, fully automating mobile suits remains difficult due to battlefield complexity. Regardless of soul discussions, we need refined man-machine interfaces, and I understand the hope for general-use psycommu that doesn't destroy the brain.

Lee: In that process, pseudo-personality AI and psycho-machines like the F90N type were created in combination.

Fares: Either way, SNRI was clearly trying to develop AI with some form of personality beyond previous levels at the time.

Dina: AI created by genius shoefitters is unique and could potentially shift the military balance - as demonstrated by the RX-78 and Amuro Ray myth.

Carmine: Well, time's almost up. Heh, while this remains speculative, there's a theory about some connection between EXAM and NT-D... Perhaps next time we meet, we can discuss the UC Project more.

—Looking forward to it. Thank you all.

(Historica Chronica, August 25, U.C. 0148)

NOTICE TO READERS

That opportunity never came. A week later, Professor Carmine perished along with other passengers when their Space Bus transport was struck by debris, presumably from the Side 2 Alliance conflict. Monthly Mobile Machine strongly condemns the barbaric actions of the Side 2 Alliance, whose selfish actions continue to pollute space and escalate conflict. May Maria protect us!

